

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims

1. (Currently Amended) A method of producing treated water comprising:
introducing a first portion of water to be treated from a point of entry into a pressurized vessel while introducing a second portion of the water to be treated from the point of entry into an electrochemical device;
removing at least a portion of any undesirable species from the second portion of the water to be treated in the electrochemical device while suppressing hydroxyl ion generation to produce treated water;
storing at least a portion of the treated water in a treated water zone of the pressurized vessel, the treated water zone of the pressurized vessel defined by at least one baffle; and
distributing at least a portion of the water from the pressurized vessel to a point of use in a household.
2. (Canceled)
3. (Original) The method of claim 1, wherein removing the at least a portion of any undesirable species while suppressing hydroxyl ion generation comprises applying an electrical current below a limiting current density.
4. (Currently Amended) The method of claim 1, further comprising measuring at least one water property of at least a portion of the water in the pressurized vessel.
5. (Original) The method of claim 4, further comprising adjusting an operating parameter of the electrochemical device based on the measured water property.

6. (Original) The method of claim 4, further comprising distributing at least a portion of the treated water to a point of use based on the measured water property.

7. (Original) The method of claim 4, further comprising adjusting a flow rate of the water into the electrochemical device based on the measured water property.

8. (Canceled) ~~The method of claim 1, wherein the act of storing at least a portion of the treated water comprises storing at least a portion the treated water in a pressurized vessel.~~

9. (Canceled) ~~The method of claim 8, wherein storing the treated water in the pressurized vessel comprises storing the treated water in a treated water zone of the pressurized vessel.~~

10. (Original) The method of claim 1, wherein the electrochemical device comprises an electrodeionization device.

11. (Currently Amended) A method of producing treated water comprising:
~~storing a first~~introducing a portion of water to be treated from a point of entry ~~in~~into a first zone of a vessel;
~~introducing a second portion of the water to be treated from the point of entry into an electrodeionization device;~~
introducing a portion of the water from the vessel into the electrodeionization device;
applying an electrical current ~~below a limiting current density~~ through the electrodeionization device to promote removal of any undesirable species from the water and produce treated water; and
~~maintaining the electrical current below the limiting current density to produce the treated water~~introducing at least a portion of the treated water from the electrodeionization device into a second zone of the vessel, the second zone separated from the first zone by at least one baffle.

12. (Canceled) ~~The method of claim 11, further comprising storing the treated water in the vessel.~~

13. (Currently Amended) The method of claim [[12]]11, further comprising measuring a water property of water in the vessel.

14. (Original) The method of claim 13, wherein applying the electrical current comprises adjusting the electrical current based on the measured water property.

15. (Currently Amended) The method of claim 14, wherein introducing water from the point of entry into the first zone of the vessel comprises adjusting a water flow rate based on the measured water property.

16. (Previously Presented) The method of claim 15, further comprising distributing at least a portion of the treated water to a household point of use.

17. (Previously Presented) A water treatment system comprising:
a water storage vessel fluidly connected to a point of entry, the water storage vessel comprising a plurality of zones having water contained therein with differing water quality levels;
an electrochemical device fluidly connected to the point of entry and the water storage vessel;
a power supply for providing an electrical current to the electrochemical device; and
a controller for regulating the electrical current below a limiting current density.

18. (Previously Presented) The system of claim 17, further comprising a household distribution system fluidly connected downstream of the water storage vessel and to a point of use.

19. (Original) The system of claim 17, further comprising at least one water property sensor.

20. (Original) The system of claim 19, wherein the electrochemical device comprises an electrodeionization device.

21. (Canceled)

22. (Canceled) ~~A method of facilitating water treatment comprising: fluidly connecting a pressurizable water storage vessel downstream of a point of entry and upstream of a household distribution system fluidly connected to at least one point of use selected from the group consisting of a showerhead, a kitchen sink faucet, a washing machine, and a dishwasher; fluidly connecting an electrochemical device downstream from and upstream of the pressurizable water storage vessel; providing a power supply configured to provide an electrical current to the electrochemical device; and providing a controller configured to regulate the electrical current below a limiting current density.~~

23. (Canceled)

24. (Canceled)

25. (Canceled)

26. (Canceled)

27. (Canceled) ~~The method of claim 11, further comprising a step of providing treated water mixed with water to be treated from the point of entry.~~

28. (Previously Presented) The method of claim 10, further comprising measuring a plurality of water quality levels of the water in the vessel.

29. (Previously Presented) The system of claim 17, wherein at least a portion of the water storage vessel is pressurized.

30. (Currently Amended) The system of claim 29, wherein the controller is further configured to regulate delivery of water from at least one of the plurality of zones to at least one point of use.

31. (Previously Presented) The system of claim 17, wherein the controller is further configured to receive at least one signal representative of at least one water quality level of at least one zone and regulate the electrical current based at least partially on the at least one signal.

32. (Canceled) ~~The method of claim 22, further comprising a step of connecting the controller to at least one water property sensor disposed in the pressurizable water storage vessel.~~